

Craig Stevenson

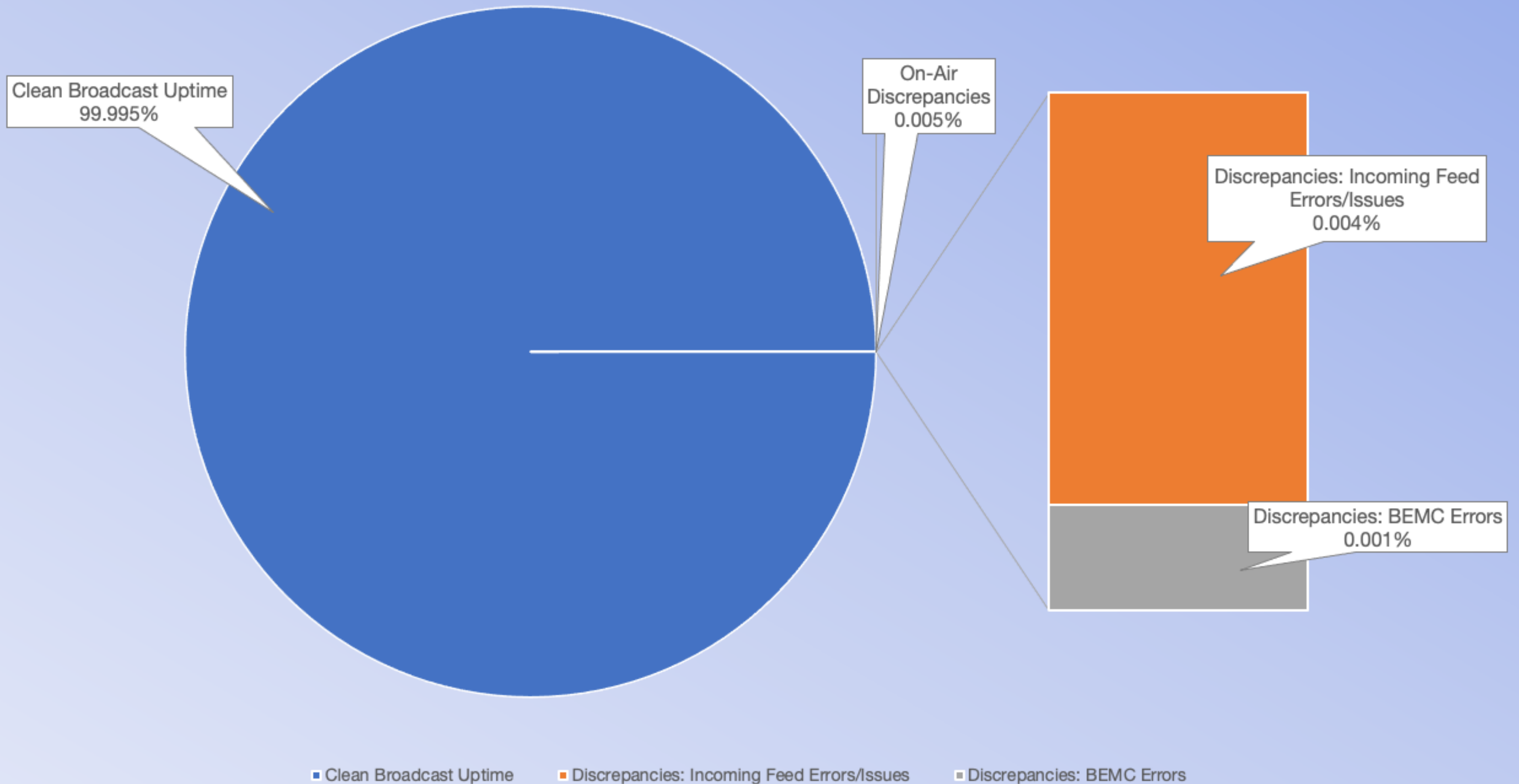
Chief of Engineering and Broadcast Operations

Josh Sorden

Broadcast Operations Manager



June 2022 Broadcast Performance of Ohio JMC



OHIO PUBLIC TELEVISION STATIONS PARTICIPATING IN THE OHIO JMC	CHANNELS FULLY SERVICED BY OHIO JMC	CHANNELS LOCALLY STATION-SERVICED
The Ohio Channel	The Ohio Channel (OGT)	
WBGU-PBS	WBGU 27.1 HD WBGU 27.2 The Ohio Channel WBGU 27.3 Create	
WGTE Public Media	WGTE 30.1 HD WGTE 30.2 Kids WGTE 30.3 Create	
WOSU Public Media	WOSU 34.1 HD WOSU 34.2 Ohio WOSU 34.3 Plus WOSU 34.4 Kids	
CET Public Media	WCET 48.2 Create WCET 48.3 Arts WCET ETV1 WCET ETV2 WPTO 14.3 Kids WPTO 14.4 World	WCET 48.1 HD WPTO 14.1 HD WPTO 14.2 Prime
ThinkTV Public Media	WPTD 16.3 Life WPTD 16.4 Ohio/World WPTD 16.5 Kids	WPTD 16.1 HD WPTD 16.2 Again

OHIO PUBLIC TELEVISION STATIONS PARTICIPATING IN THE OHIO JMC	SUPPLEMENTAL SERVICE HIGHLIGHTS PROVIDED / MAINTAINED BY BEMC
The Ohio Channel	<ul style="list-style-type: none"> • Internet / OARnet Fiber Network access • Two bi-directional live lines • One uni-directional live line
WBGU-PBS	<ul style="list-style-type: none"> • Bi-directional live line • State Primary EAS feed • Connection to The Ohio Digital Emergency Alert System (OEAS) signal
WGTE Public Media	<ul style="list-style-type: none"> • Bi-directional live line • State Primary EAS feed • Connection to the OEAS signal • Dedicated 24/7 duplication of WGTE HD channel for station's Internet-streaming needs
WOSU Public Media	<ul style="list-style-type: none"> • Bi-directional live line • State Primary EAS feed • Connection to the OEAS signal • WOSU STL radio link between Columbus, OH & Portsmouth, OH • Monitoring of off-air signal for WOSU radio
CET Public Media	<ul style="list-style-type: none"> • Bi-directional live line • State Primary EAS feed • Connection to the OEAS signal • One bi-directional live line, linking the WCET facility and ThinkTV facility • WCET and WPTO air transmission paths Dayton, OH to Cincinnati, OH • Private network between Cincinnati (WCET) and Dayton (ThinkTV)
ThinkTV Public Media	<ul style="list-style-type: none"> • Bi-directional live line • State Primary EAS feed • Connection to the OEAS signal • Some overlapping services with WCET, detailed above

OHIO PUBLIC TELEVISION STATIONS SERVICING OWN CHANNELS	CHANNELS SERVICED BY OHIO JMC	CHANNELS LOCALLY STATION-SERVICED
WOUB Public Media	WOUB 20.5 The Ohio Channel WOUC 44.5 The Ohio Channel	20.1 / 44.1 HD 20.2 / 44.2 Classic 20.3 / 44.3 World 20.4 / 44.4 Create 20.6 / 44.6 Kids
Ideastream Public Media	WVIZ 25.2 The Ohio Channel	WVIZ 25.1 HD WVIZ 25.3 World WVIZ 25.4 Create WVIZ 25.5 Kids
Western Reserve Public Media	WNEO 45.2 Fusion <i>[Note: “Fusion” broadcasts The Ohio Channel during weekdays.]</i>	WNEO 45.1 HD WNEO 45.3 FNX

OHIO PUBLIC TELEVISION STATIONS SERVICING OWN CHANNELS	SUPPLEMENTAL SERVICE HIGHLIGHTS PROVIDED / MAINTAINED BY BEMC
WOUB Public Media	<ul style="list-style-type: none">• Bi-directional live line• State Primary EAS feed• Connection to The Ohio Digital Emergency Alert System (OEAS) signal• 24/7 feed of The Ohio Channel• 24/7 feeds of PBS Satellite Sources (PBS HD01, HD02, HD06/KIDS, SD02/CREATE, SD04/WORLD)• Connectivity to both Dish Network and DirectTV for distribution of WOUB channels
Ideastream Public Media	<ul style="list-style-type: none">• Bi-directional live line• State Primary EAS feed• Connection to the OEAS signal• 24/7 feed of The Ohio Channel• 24/7 all-purpose backup source, which is by default a duplication of WVIZ HD channel programming
Western Reserve Public Media	<ul style="list-style-type: none">• Internet / OARnet Fiber Network access• Bi-directional live line• State Primary EAS feed• Connection to the OEAS signal• 24/7 feed of The Ohio Channel• 24/7 feeds of PBS Satellite Sources (PBS HD01, HD02, HD06/KIDS, SD02/CREATE, SD04/WORLD)

In June 2022, the Ohio JMC...

- downloaded **816** distinct programs from sIX
 - recorded **382** programs from satellite and live feeds
 - received **189** programs via file transfer from Ohio stations
- ...for a total of **1,387** new program acquisitions for one month.

88,299

Total broadcast media files

37,576

Shared program media files

Sale of Champions

Lumen VYVX



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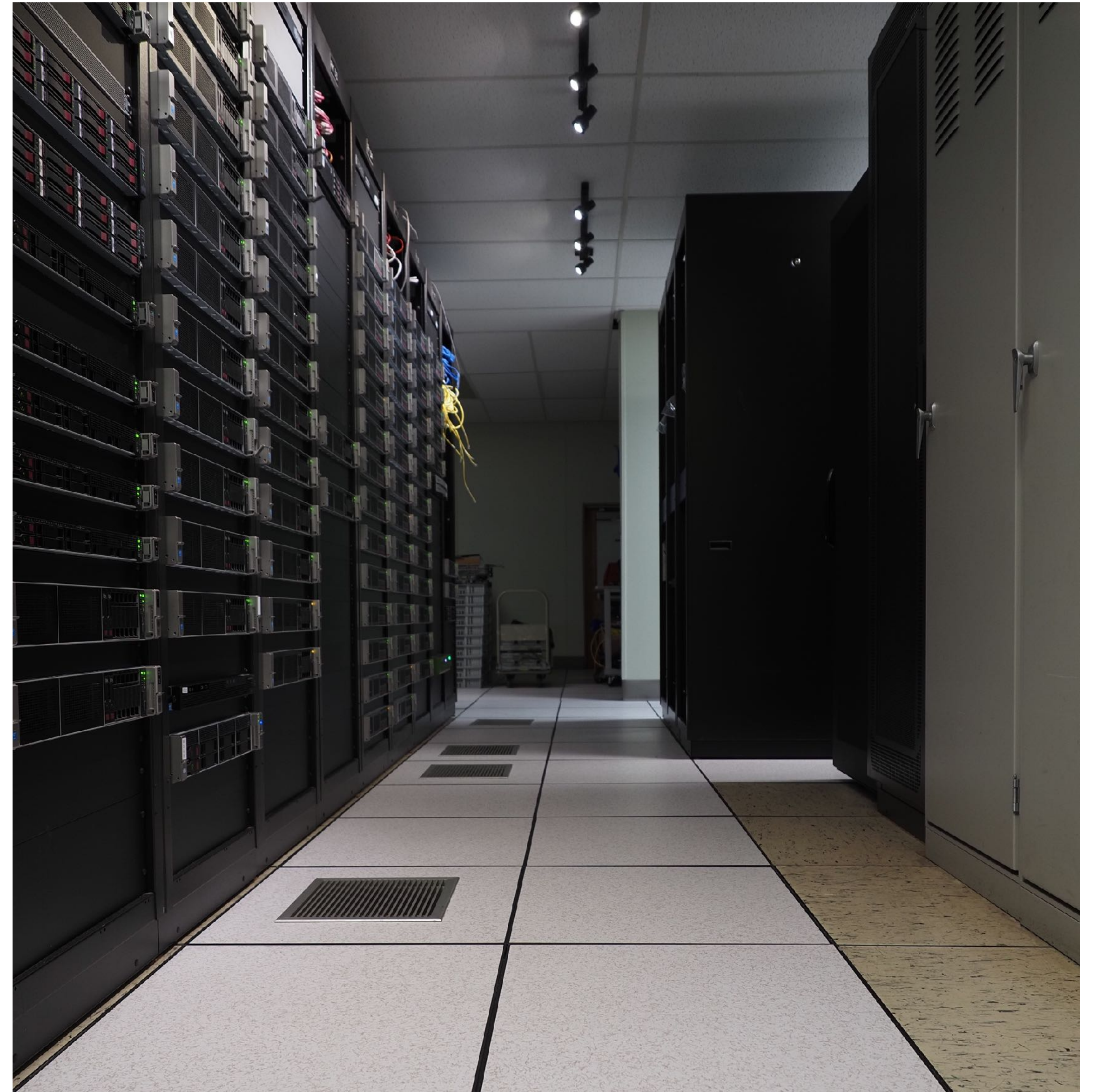
Engineering Manager

BEMC JMC Platform

- Service & Communication
- Redundancy
- Platform Modernization
- Flexibility

Service & Communication

- 24/7 staffing and escalation
- Dedicated Engineering staff around the clock
- Ticketing system for tracking issues, changes, and discrepancies
 - 26,000+ tickets since 2017
- Quarterly engineering meetings with stations



Redundancy


Network

- Backbone redundancy across the state
- Redundant last mile connectivity for all sites utilizing a majority of BEMC services
- Network events
 - Fiber cut to Portsmouth in June 2017
 - Maumee bridge collapse in April 2019
 - Cincinnati service degraded in November 2021
 - Toledo fiber cut in December 2021
 - WOSU site migration 2022

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Maumee Avenue Bridge one of four citywide in poor condition

DAVID PATCH ✓
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APR 14, 2019 3:36 PM

When it closed last fall for reconstruction, the [Maumee Avenue Bridge over Norfolk Southern tracks](#) in Toledo's south end was one of four citywide that local inspectors rated in "poor" condition in 2018.

The other three — as well as three of eight rated "fair" — all belonged to

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Platform Modernization

- Updates
 - Windows updates and security patches
 - Hardware firmware updates
 - Software version updates
- Added capabilities
 - ProTrack Hub
 - Transcoding
 - Newer codecs
 - Nielsen support
 - Broadcast logging
- Replacement and upgrade
 - Storage replacement
 - Encoding and decoding platform
 - Workstations and servers



Flexibility

Adapting to changing workflows:

- File delivery from PBS NRT to PBS sIX
- Streaming for YouTube TV and others
 - First all IP
- Real-time delivery changes
- Transcoding



Eric Wortman

Engineering Manager